

ARCHITECTURE

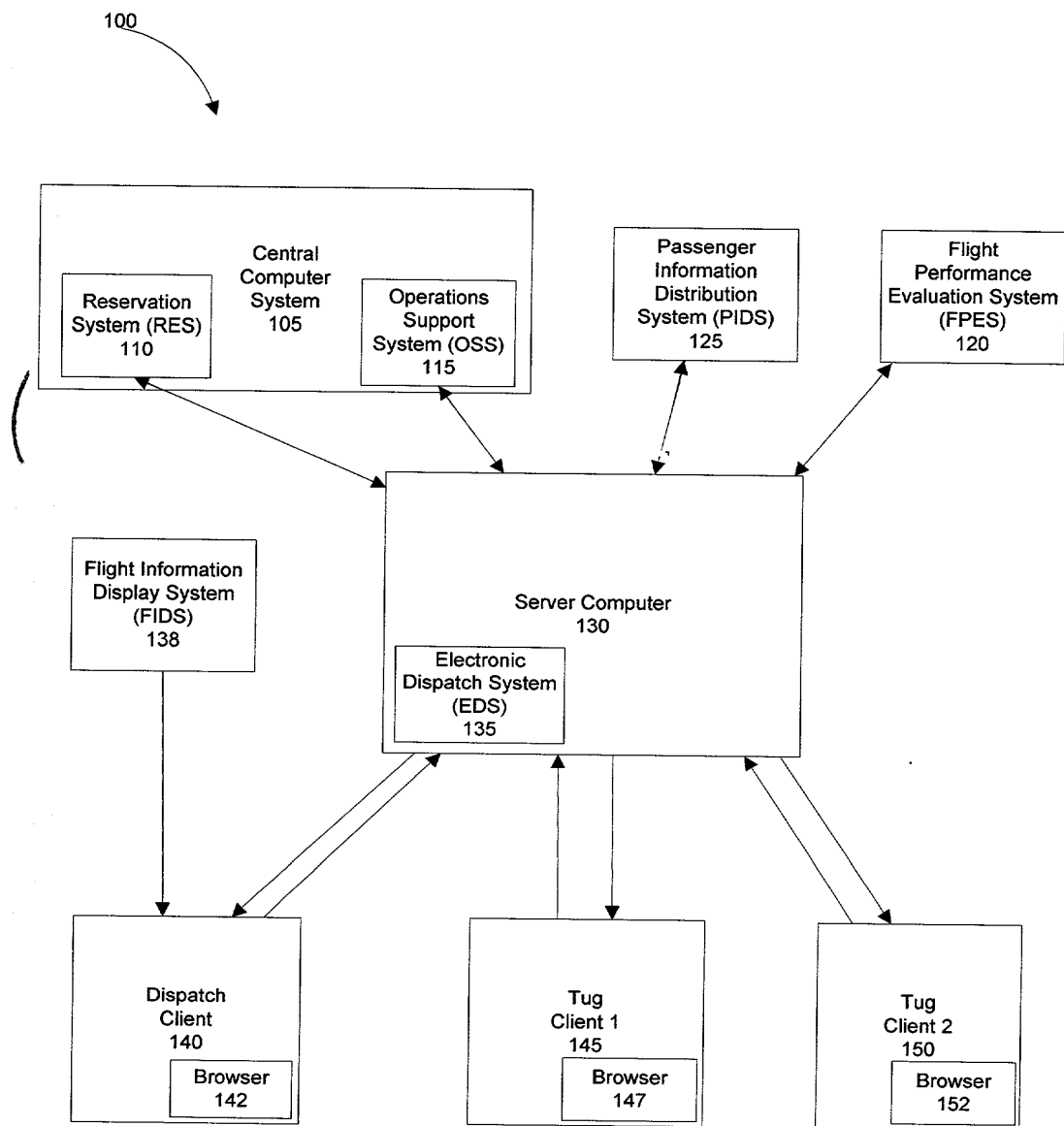


FIG. 1

ELECTRONIC DISPATCH  
SYSTEM OVERVIEW

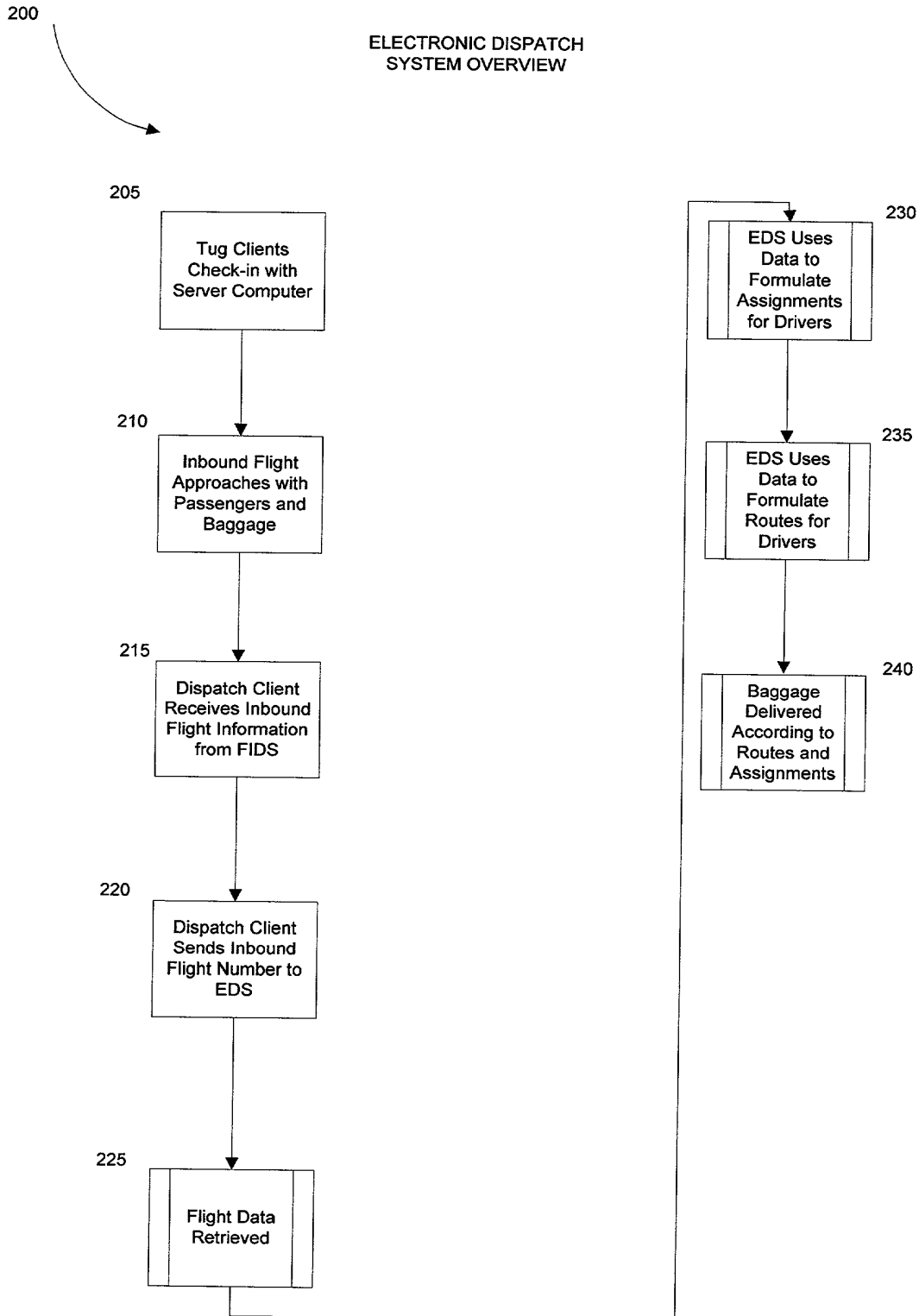
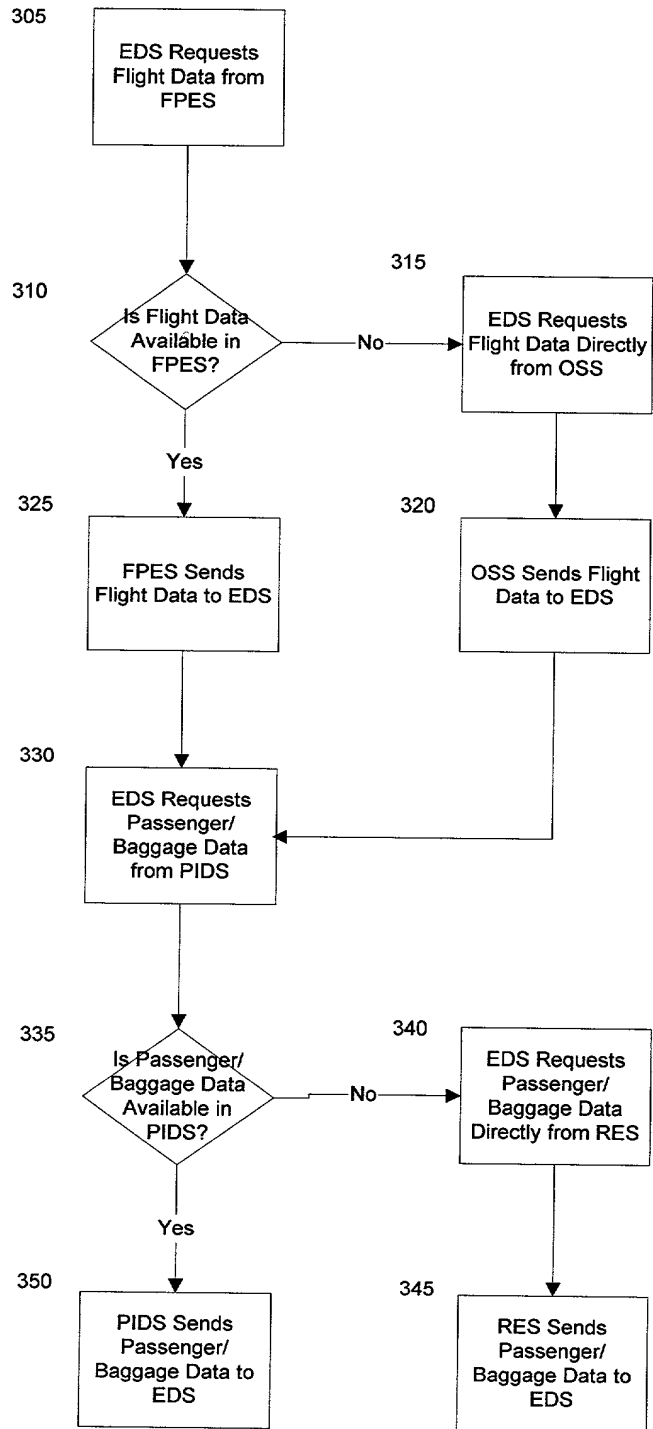


FIG. 2

# FLIGHT DATA RETRIEVAL

225



**FIG. 3**

0978220.04201

BAGGAGE DELIVERY  
ZONES

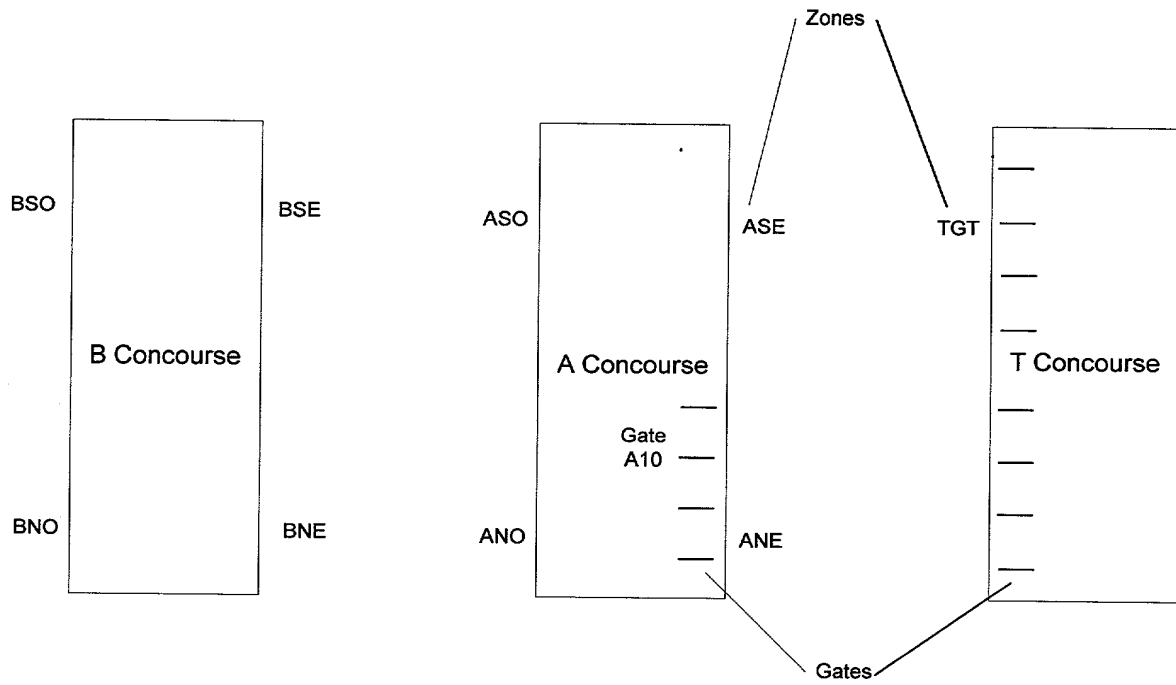


FIG. 4

FIG. 5

# FORMULATE ASSIGNMENT SOLUTION

230

505

Set Driver, Bag,  
and Stop  
Parameters for  
Assignment  
Calculation

510

Create  
Possible  
Solutions from  
Combinations  
of Assignments  
(See FIG. 6)

515

Calculate Cost  
for Each  
Solution Using  
Assignment  
Calculation  
(See FIG. 10)

520

Save Solution with  
Lowest Cost as  
Best Solution

525

Present Best  
Solution to  
Dispatch Client

FIG. 5

# ASSIGNMENT COMBINATIONS

Max bags = 30    Driver cost = 10000  
 Max stops = 10    Bag cost = 25  
 Target bags = 25    Stop cost = 150  
 Target stops = 6    Balance cost = 100  
 Pair cost = 700

TGT - 15 bags, 3 stops  
 ASE - 10 bags, 4 stops  
 ANE - 10 bags, 4 stops  
 ANO - 10 bags, 5 stops  
 ASO - 12 bags, 2 stops

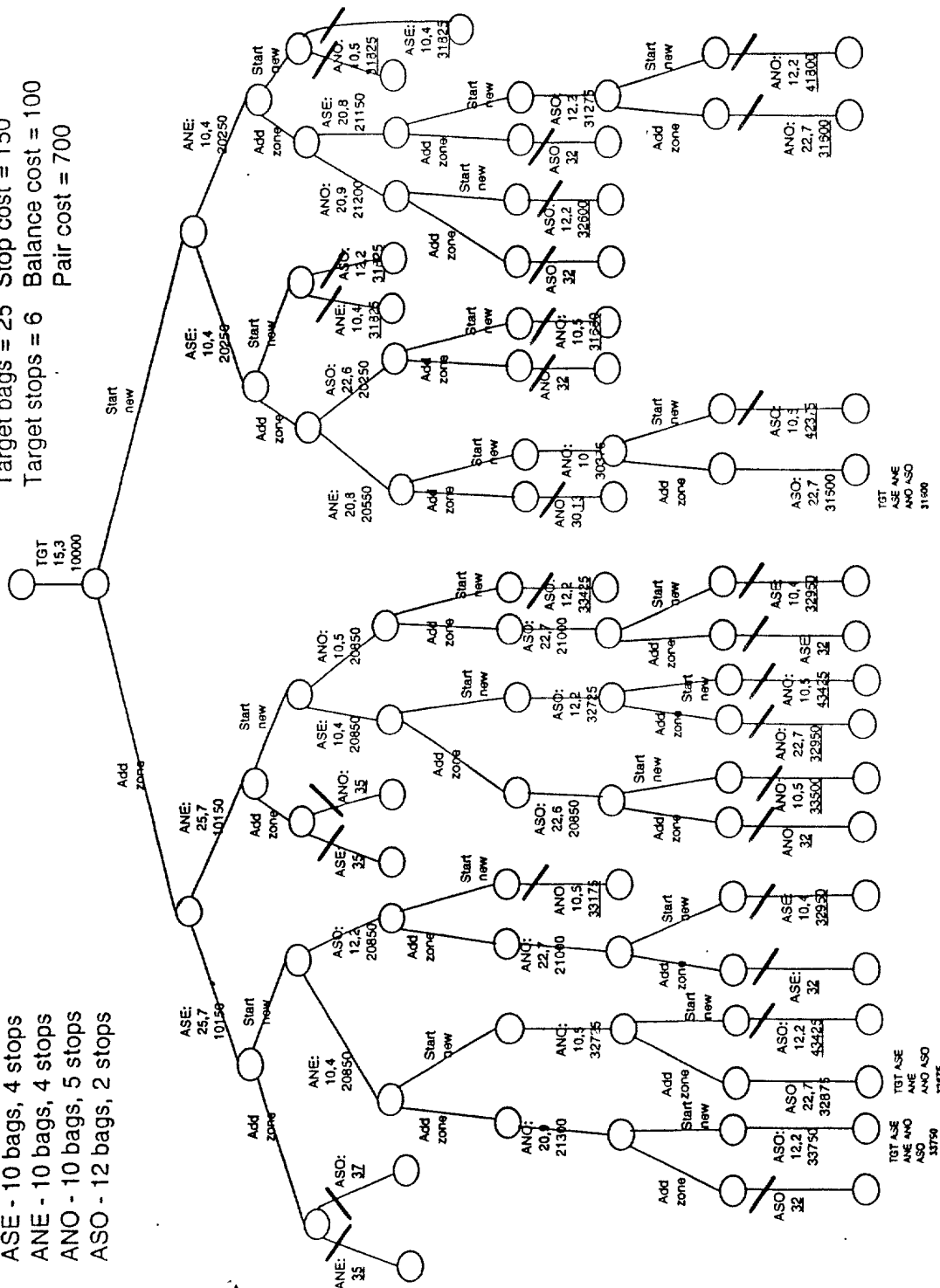


FIG. 6

09/28/00 04:20

# FORMULATE ROUTING SOLUTION

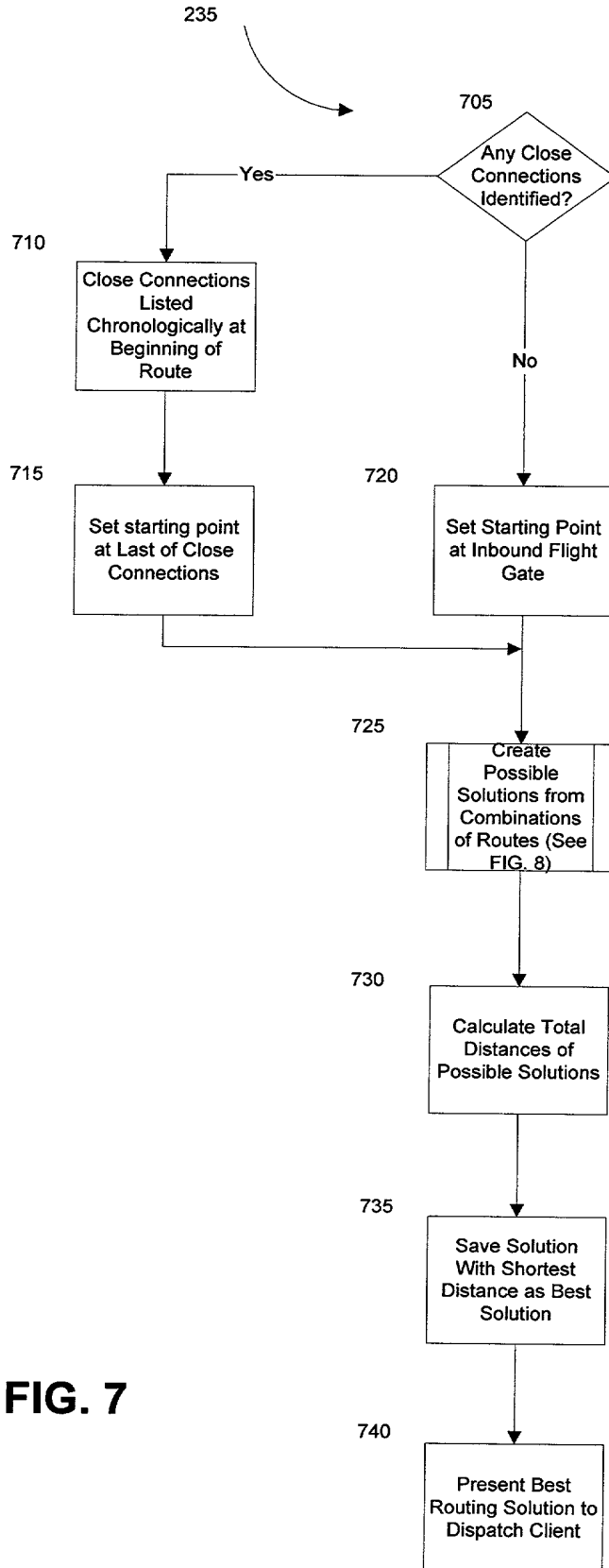


FIG. 7

## ROUTING COMBINATIONS

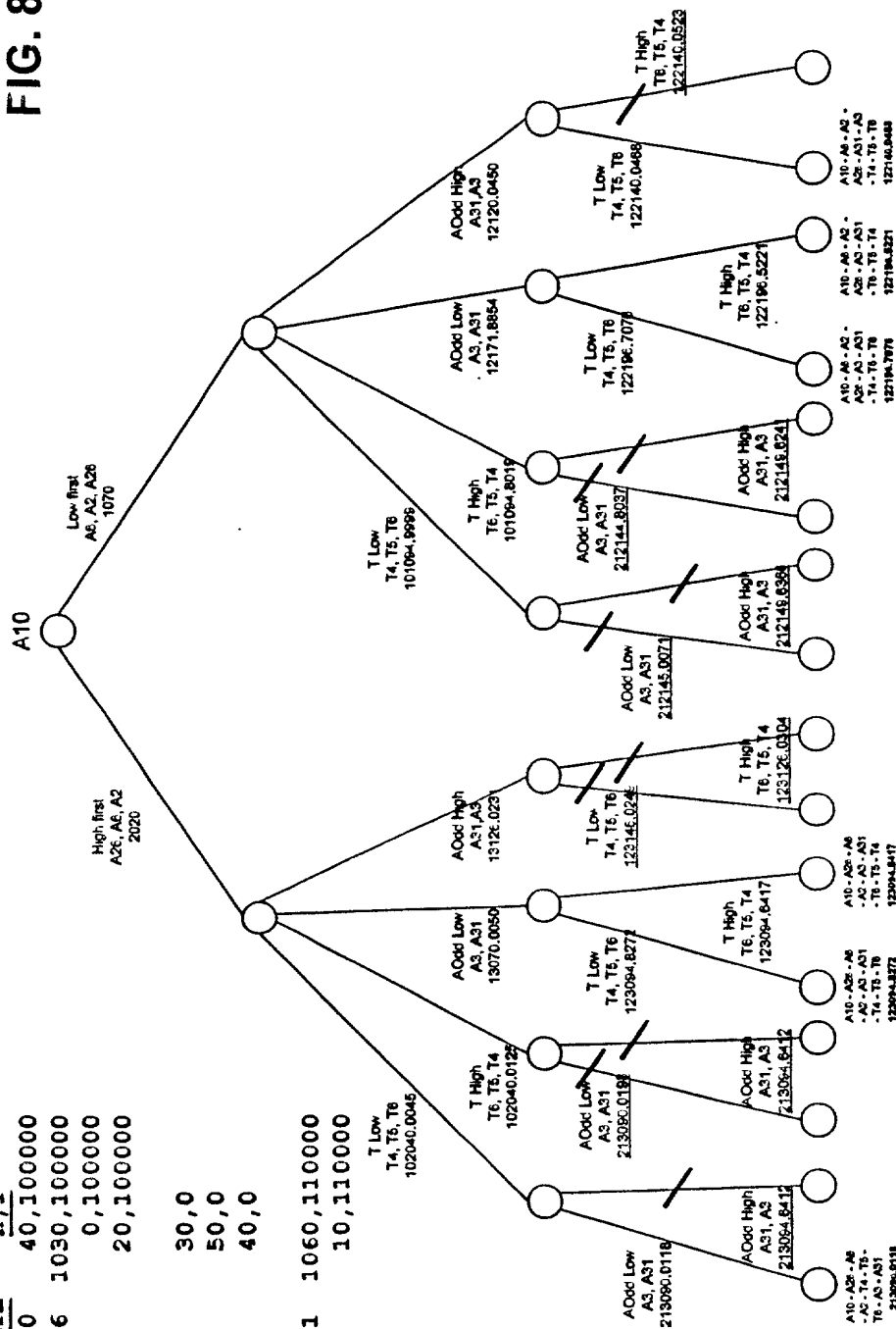
<u>GATE</u>	<u>X, Y</u>
A10	40,100000
A26	1030,100000
A2	0,100000
A6	20,100000
T4	30,0
T6	50,0
T5	40,0
A31	1060,110000
A3	10,110000

T Low

T4, T6, T5

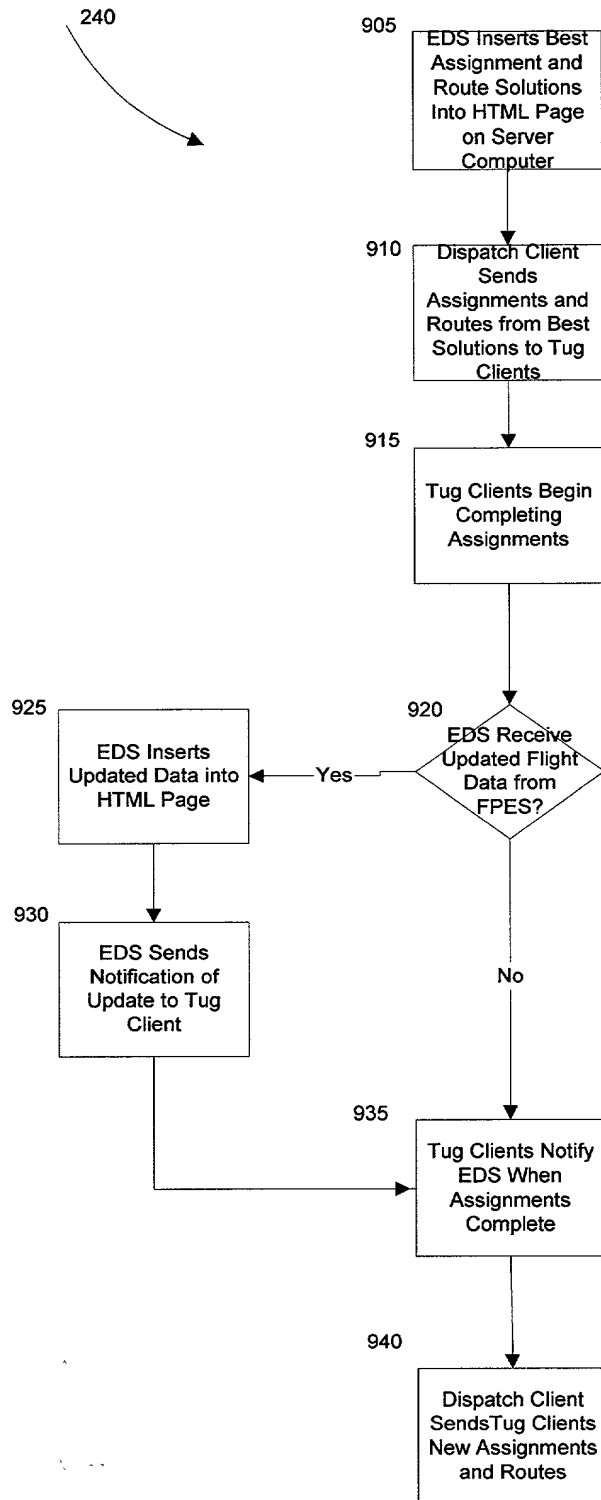
102040,000

8. FIG.





## BAGGAGE DELIVERY



**FIG. 9**

# ASSIGNMENT COST CALCULATION

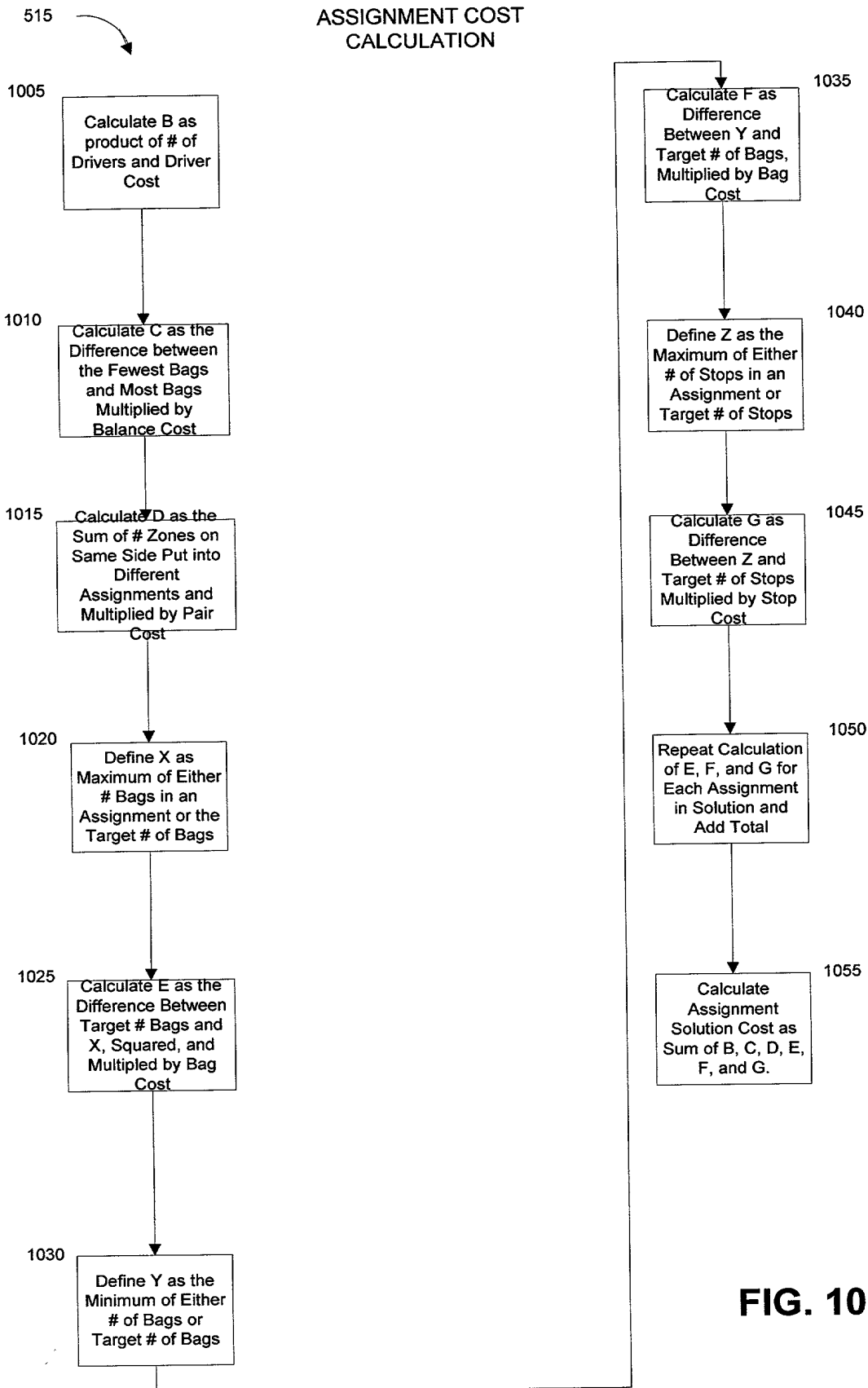


FIG. 10